



Micro Commercial Components



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# 2SA1832-Y 2SA1832-GR

## PNP Silicon Epitaxial Transistor

### Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Small Package
- Mounting: any position
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

#### Maximum Ratings @ T<sub>a</sub> = 25°C (unless otherwise noted)

Symbol	Parameter	Value	Unit
I <sub>C</sub>	Collector Current	-0.15	A
P <sub>D</sub>	Total Device Dissipation	100	mW
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-1mA, I <sub>B</sub> =0)	-50		V
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =-100μA, I <sub>E</sub> =0)	-50		V
V <sub>(BR)EBO</sub>	Collector-Base Breakdown Voltage (I <sub>E</sub> =-100μA, I <sub>C</sub> =0)	-5.0		V
I <sub>CBO</sub>	Collector-Base Cutoff Current (V <sub>CB</sub> =-50Vdc, I <sub>E</sub> =0)		-0.1	μA
I <sub>EBO</sub>	Emitter-Base Cutoff Current (V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		-0.1	μA

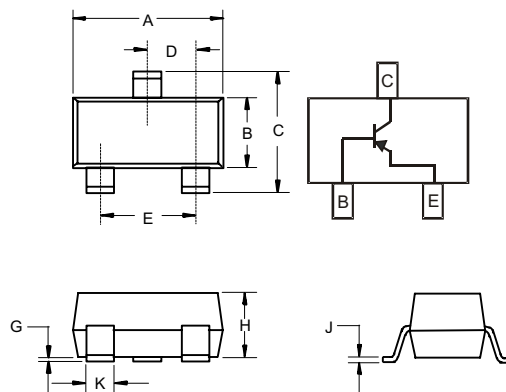
#### ON CHARACTERISTICS

h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> =-1.0mA, V <sub>CE</sub> =-6.0Vdc)	120	400	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-100mA, I <sub>B</sub> =-10mA)		-0.3	Vdc
F <sub>T</sub>	Transition Frequency (V <sub>CE</sub> =-10Vdc, I <sub>C</sub> =-1mA)	80		MHZ
C <sub>ob</sub>	Collector Output Capacitance (V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0A, f=1MHZ)		7	PF

#### CLASSIFICATION OF h<sub>FE</sub>

Rank	Y	GR
Range	120-240	200-400
Marking	SY	SG

### SOT-523



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	



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### Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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